

operation of the vehicle when an auxiliary device is turned on or is in an operation state, the interlock circuit,

comprising:

- a. a microprocessor;
- b. a plurality of sensors operatively associated with said microprocessor for sensing various parameters, said sensors including a sensor for sensing when said auxiliary device is turned on or is in said operational state; and
- c. a transmission gear selection device sensor for sensing the position of the transmission gear selection device, and a parking brake sensor for sensing the position of the parking brake.

45 (Previously presented): The interlock circuit of claim 44 which further comprises a circuit for operating said microprocessor through the vehicle's power supply, said circuit including a step-down voltage regulator connected between said microprocessor and said power supply.

46 (Previously presented): The interlock circuit of claim 44 further comprising a filter circuit provided between at least one of said sensors and said microprocessor for isolating said microprocessor from a voltage spike.

47 (Previously presented): The interlock circuit of claim 44 further comprising a filter circuit provided between each of said sensors and said microprocessor for isolating said microprocessor from a voltage spike.

48 (Currently amended): An interlock circuit for use in a vehicle having an on-board power supply, a transmission gear selection device, a parking brake, and an auxiliary device, the interlock circuit being provided to prevent the operation of the vehicle when the auxiliary device is in a pre-selected certain operative state, the interlock circuit,

comprising:

- a. a microprocessor; and
- b. at ~~least one~~ least one sensor for sensing when the auxiliary device is in a pre-selected state, wherein the circuit is adapted to prevent the transmission gear selection device from being shifted when the auxiliary device is in the pre-selected state.

49 (Currently amended): An interlock circuit for use in a vehicle having an on-board power supply, a transmission gear selection device, and a parking brake, to prevent the operation of the vehicle when an auxiliary device is turned on or is in an operational state, the circuit,

comprising:

- a. an integrated circuit;
- b. a plurality of sensors operatively associated with said integrated circuit for sensing various parameters, said sensors including a sensor for sensing when said auxiliary device is turned on or is in said operational state;

c. a transmission gear selection device sensor for sensing the position of the transmission gear selection device;

d. a parking brake sensor for sensing the position of the parking brake; and

e. a filter circuit provided between at least one of said sensors and said ~~microprocessor~~ integrated circuit for isolating said ~~microprocessor~~ integrated circuit from a voltage spike.

50 (Previously presented): The interlock circuit of claim 49 wherein said integrated circuit is a microprocessor.

51 (Previously presented): The interlock circuit of claim 50, further comprising a circuit for operating said microprocessor through the vehicle's power supply, said circuit including a step-down voltage regulator connected between said microprocessor and said power supply.

52 (Withdrawn): The interlock circuit of claim 50 in which said filter circuit is provided between each of said sensors and said microprocessor for isolating said microprocessor from a voltage spike.

53 (Withdrawn): An interlock circuit for use in a vehicle having an on-board power supply, a transmission gear selection device, and a parking brake, to prevent the operation of the vehicle when an auxiliary device is turned on or is in an operational state, the circuit,

comprising:

a. an operations controller;

b. a plurality of sensors operatively associated with said operations controller for sensing various parameters, said sensors including a sensor for sensing when said auxiliary device is turned on or is in said operational state;

c. a transmission gear selection device sensor for sensing the position of the transmission gear selection device;

d. a parking brake sensor for sensing the position of the parking brake; and

e. a filter circuit provided between at least one of said sensors and said microprocessor for isolating said microprocessors from a voltage spike.

54 (Withdrawn): The interlock circuit of claim 52 wherein said operations controller is an integrated circuit.

55 (Withdrawn): The interlock circuit of claim 52 wherein said integrated circuit is a microprocessor.

56 (Withdrawn): The interlock circuit of claim 54 further comprising a circuit for operating said microprocessor through the vehicle's power supply, said circuit including a step-down voltage regulator connected between said microprocessor and said power supply.

57 (New): The interlock circuit of claim 50 in which said filter circuit is provided between each of said sensors and said microprocessor for isolating said microprocessor from a voltage spike.

58 (New): An interlock circuit for use in a vehicle having an on-board power supply, a transmission gear selection device, and a parking brake, to prevent the operation of the vehicle when an auxiliary device is turned on or is in an operational state, the circuit,

comprising:

- a. an operations controller;
- b. a plurality of sensors operatively associated with said operations controller for sensing various parameters, said sensors including a sensor for sensing when said auxiliary device is turned on or is in said operational state;
- c. a transmission gear selection device sensor for sensing the position of the transmission gear selection device;
- d. a parking brake sensor for sensing the position of the parking brake; and
- e. a filter circuit provided between at least one of said sensors and said operations controller for isolating said operations controller from a voltage spike.